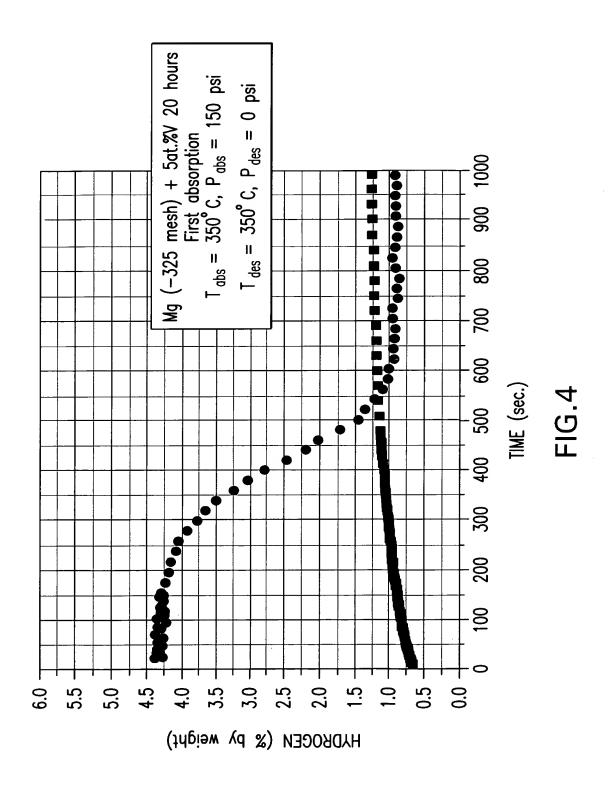
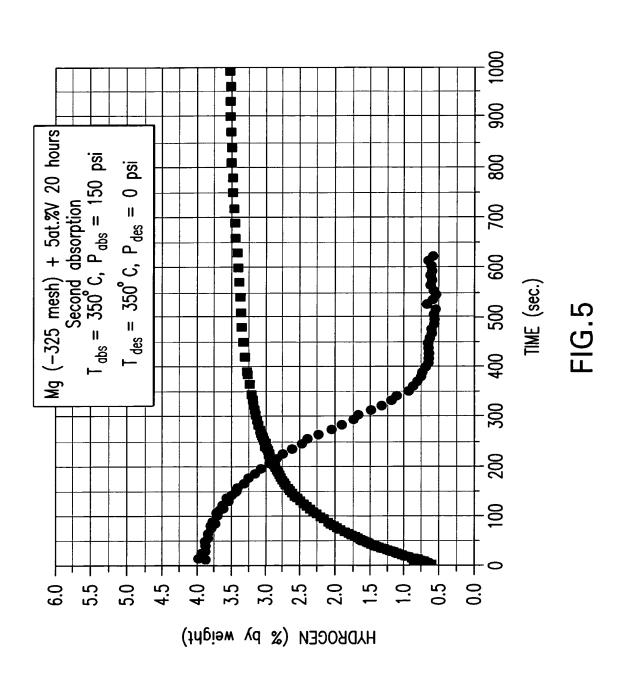


FIG.3



Inventor(s): Robert SCHULZ et al. Appl. No.: 09/529,910 REPLACEMENT SHEET



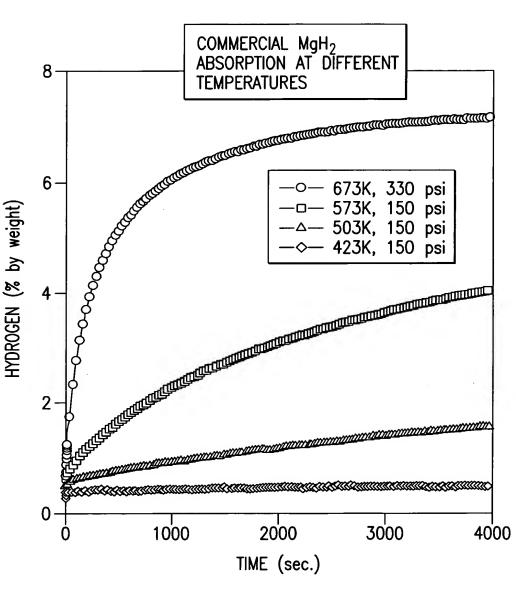


FIG.6

 ${
m MgH}_2$ GROUND FOR 20 Hours ABSORPTION AT DIFFERENT TEMPERATURES P = 150 psi

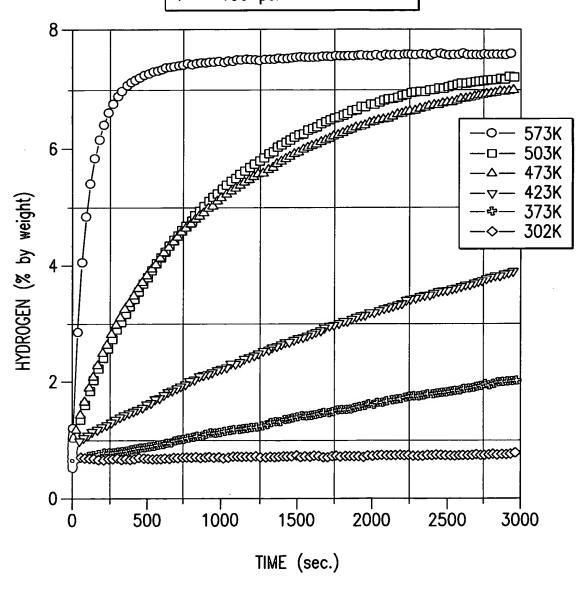


FIG.7

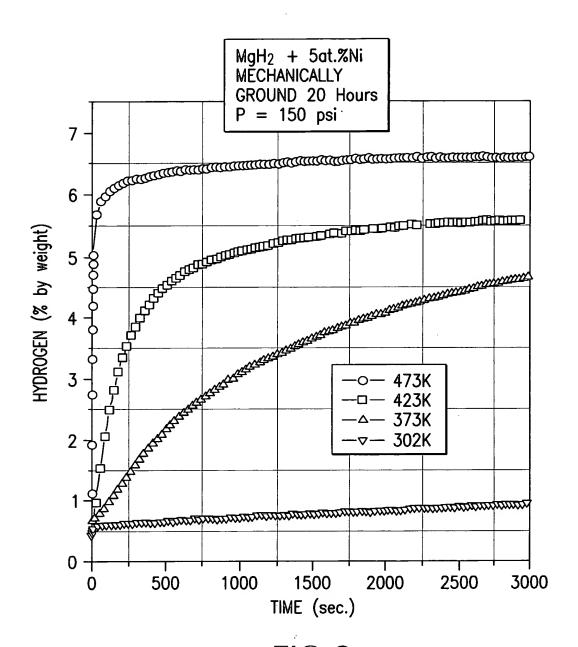


FIG.8

Title: NANOCOMPOSITES WITH ACTIVATED INTERFACES PREPARED BY MECHANICAL GRINDING OF MAGNESIUM HYDRIDES AND USE FOR HYDROGEN STORAGE

Inventor(s): Robert SCHULZ et al. Appl. No.: 09/529,910 REPLACEMENT SHEET

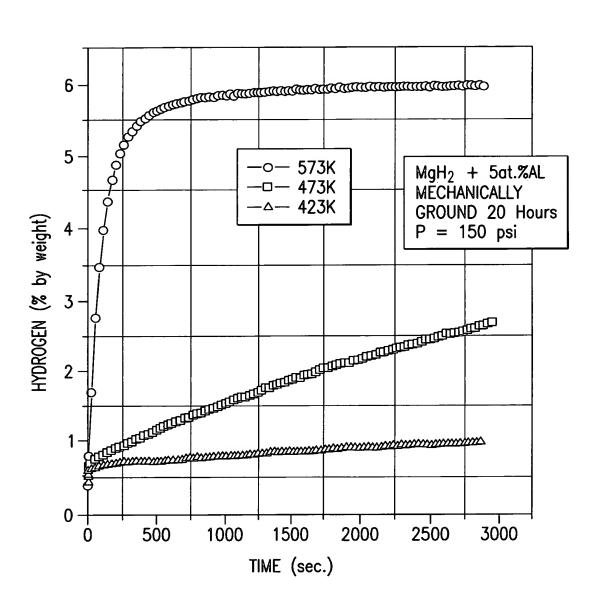
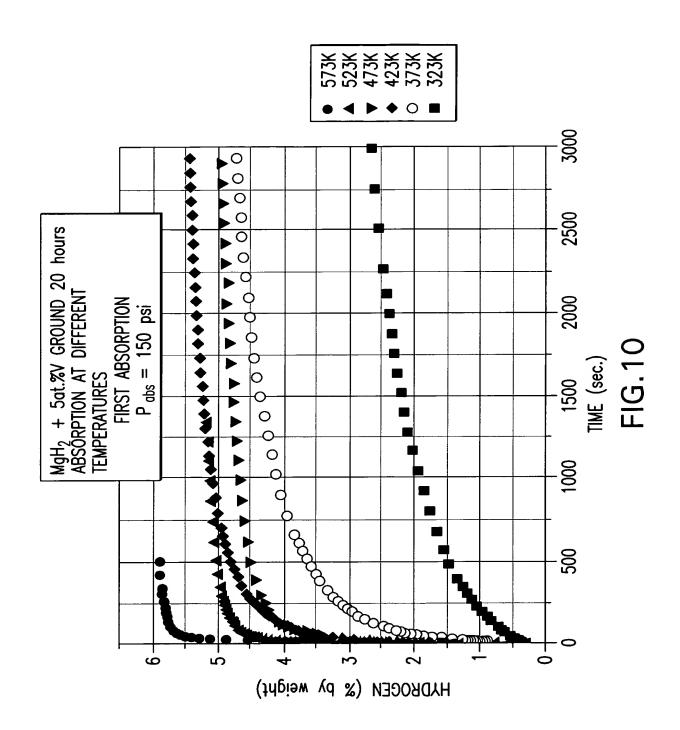
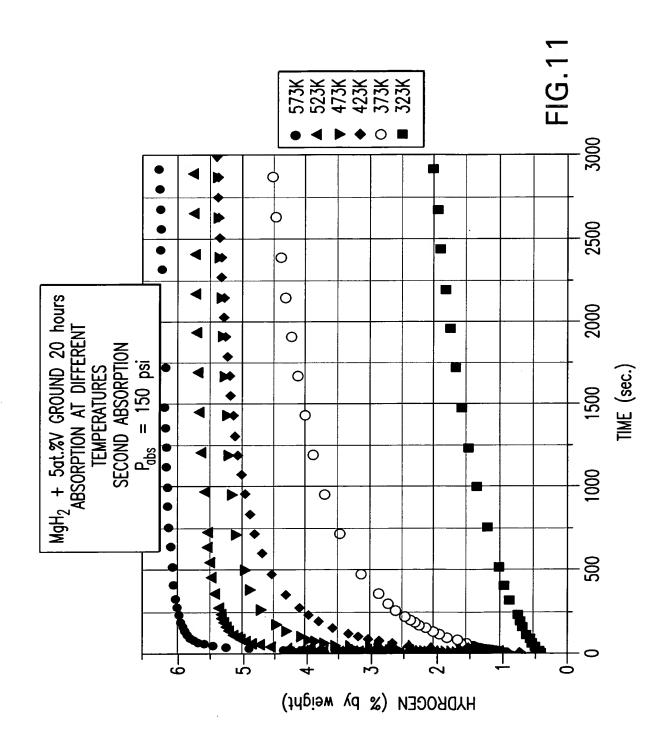


FIG.9





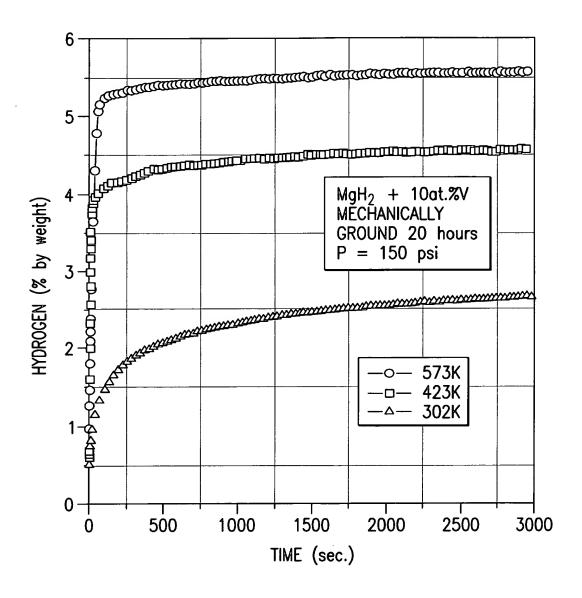
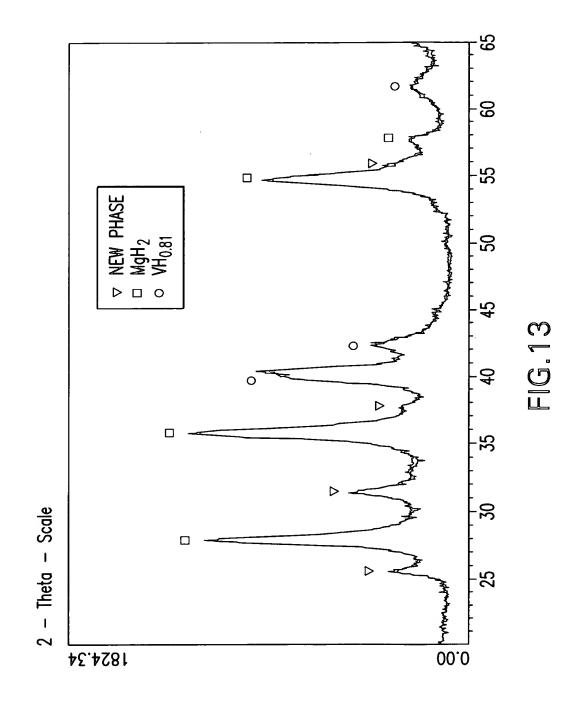
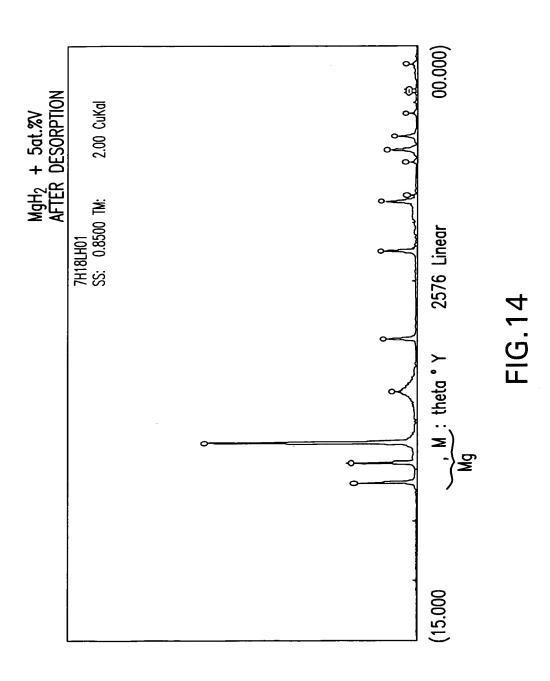


FIG.12





 $MgH_2 + 5at.\%V$

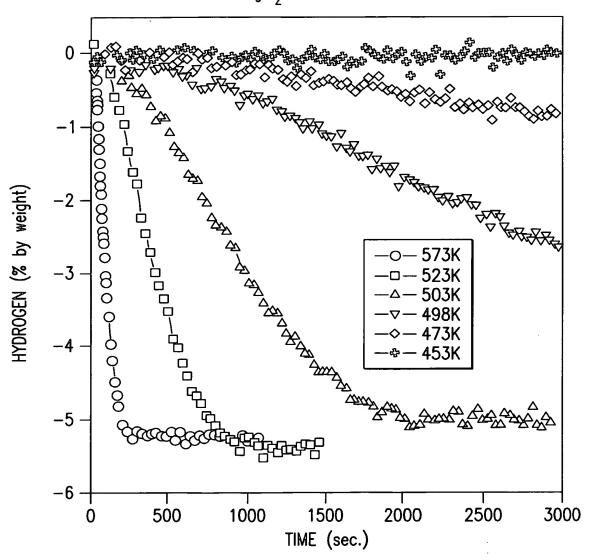
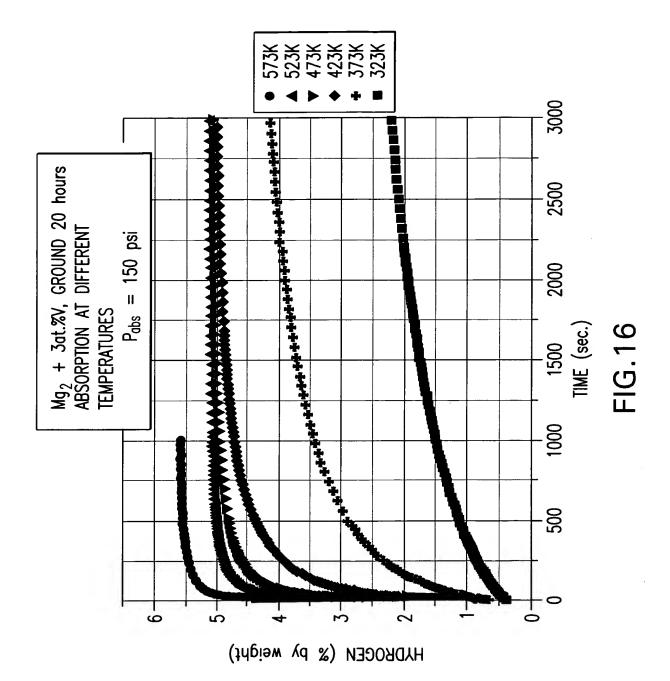
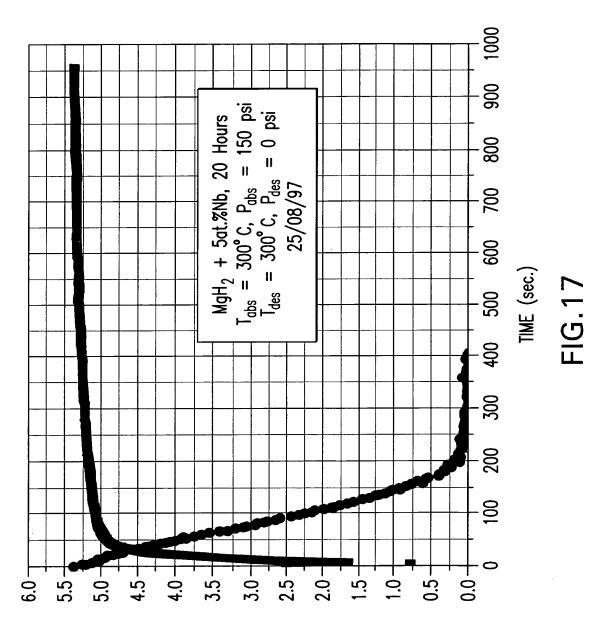
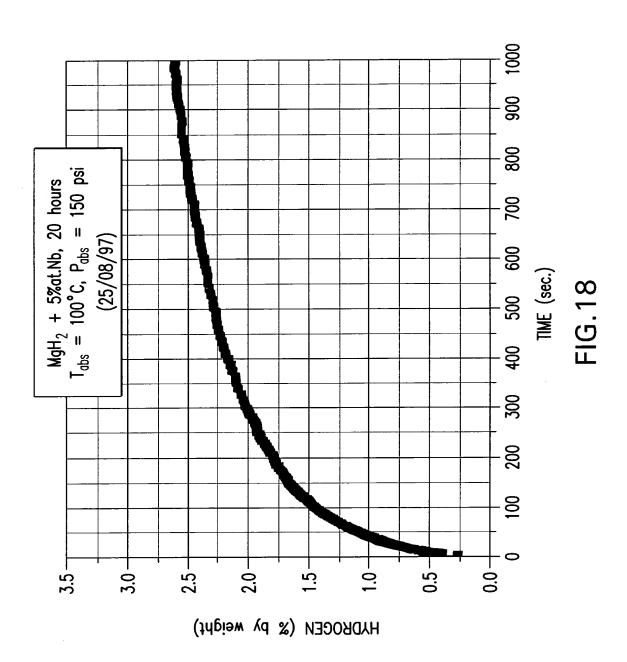


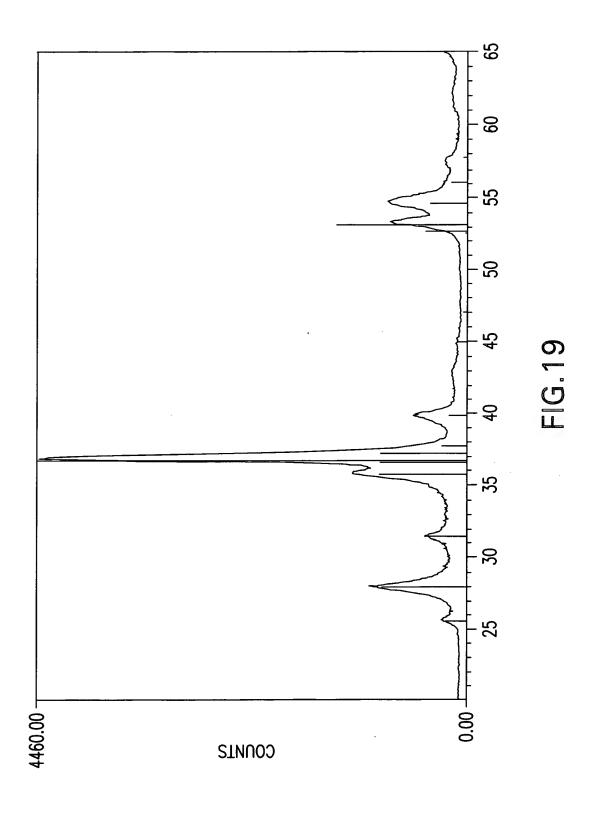
FIG. 15

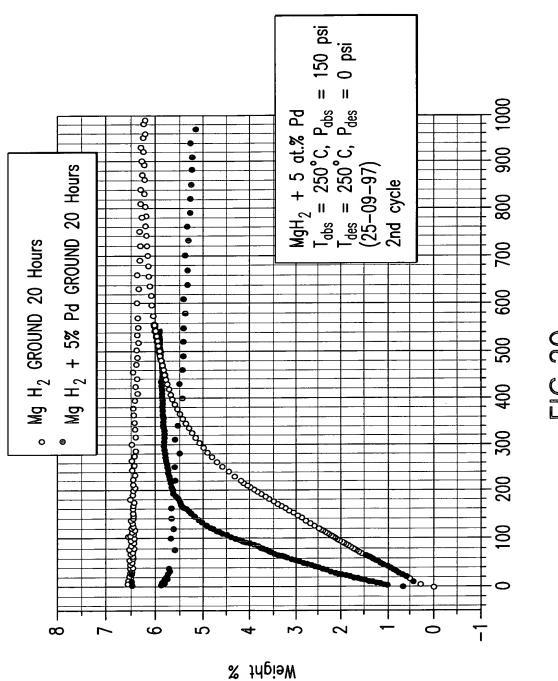




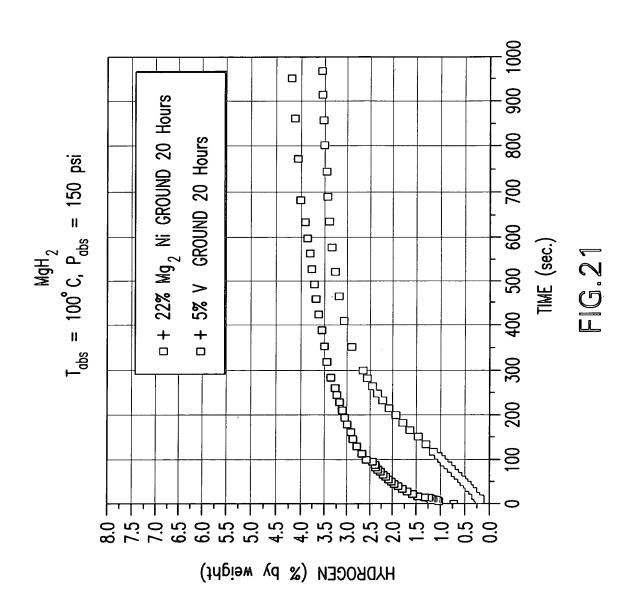
HYDROGEN (% by weight)

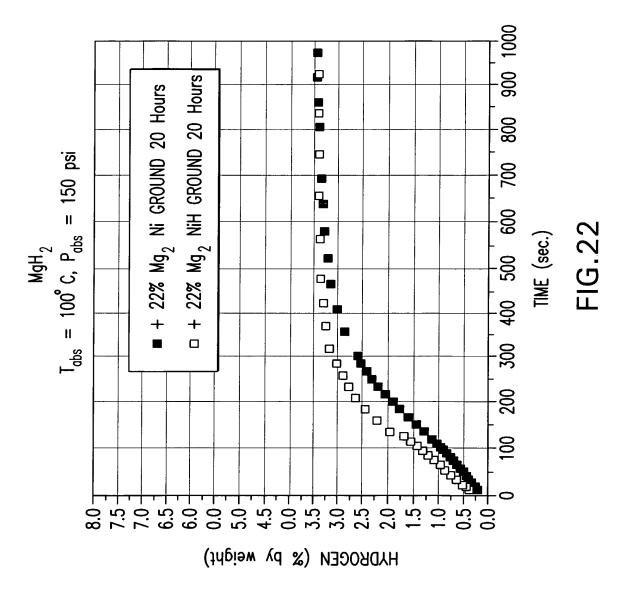






FG:20





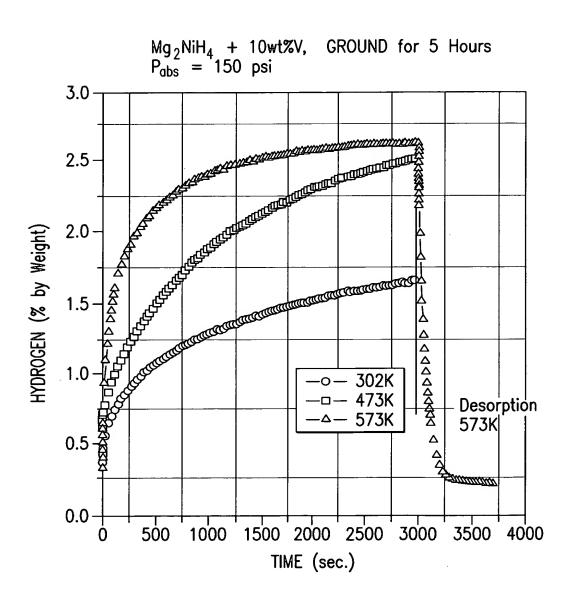
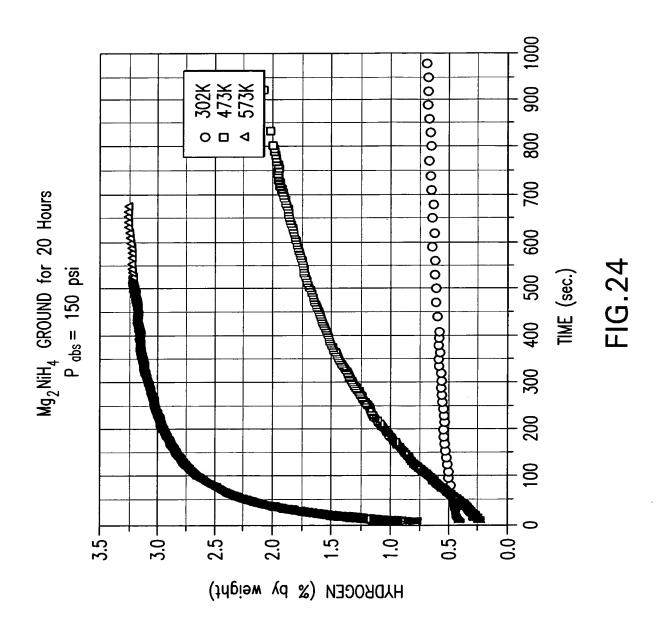


FIG.23

Title: NANOCOMPOSITES WITH ACTIVATED INTERFACES PREPARED BY MECHANICAL GRINDING OF MAGNESIUM HYDRIDES AND USE FOR HYDROGEN STORAGE Inventor(s): Robert SCHULZ et al.

Inventor(s): Robert SCHULZ et al. Appl. No.: 09/529,910 REPLACEMENT SHEET



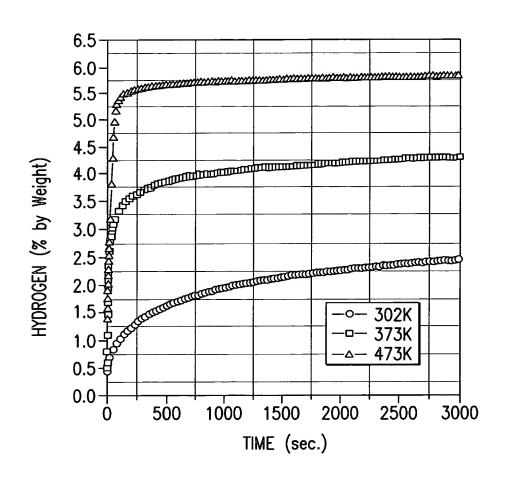


FIG.25

 \mbox{MgH}_{2} + 10at.%V, MECHANICALLY GROUND for 20 Hours T=563K

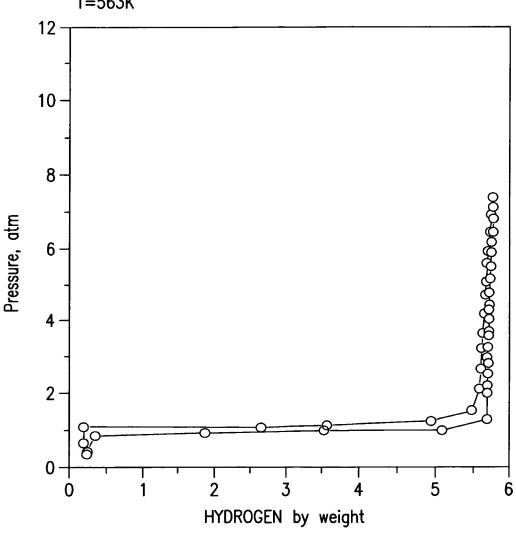


FIG.26

 MgH_2 – 5at.%Tm, absorption at 302K

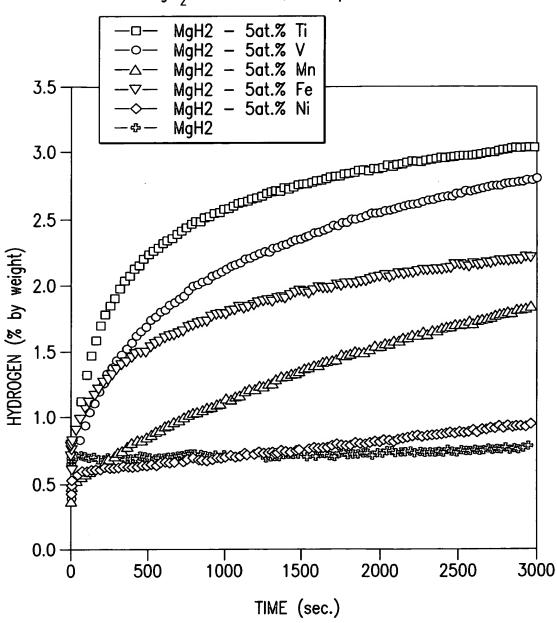
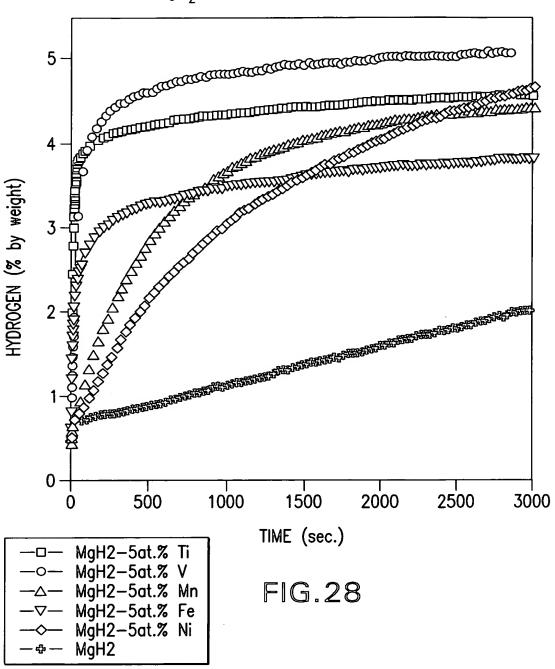
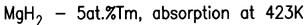


FIG.27

MgH₂ - 5at.%Tm, absorption at 373K





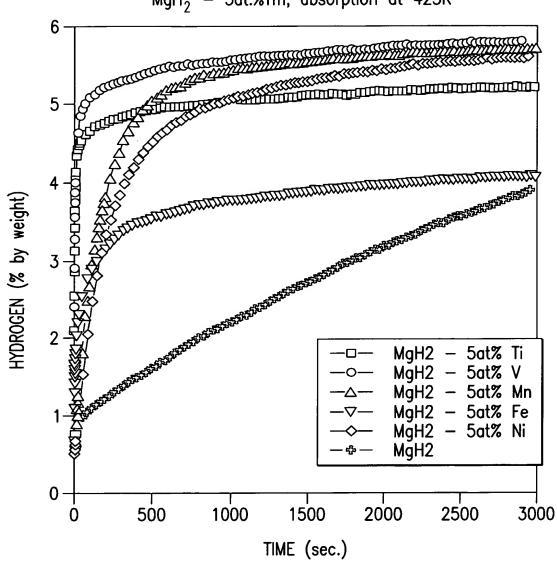


FIG.29

Title: NANOCOMPOSITES WITH ACTIVATED INTERFACES PREPARED BY MECHANICAL GRINDING OF MAGNESIUM HYDRIDES AND USE FOR HYDROGEN STORAGE Inventor(s): Robert SCHULZ et al.

 MgH_2 – 5at.%Tm, desorption at 508K

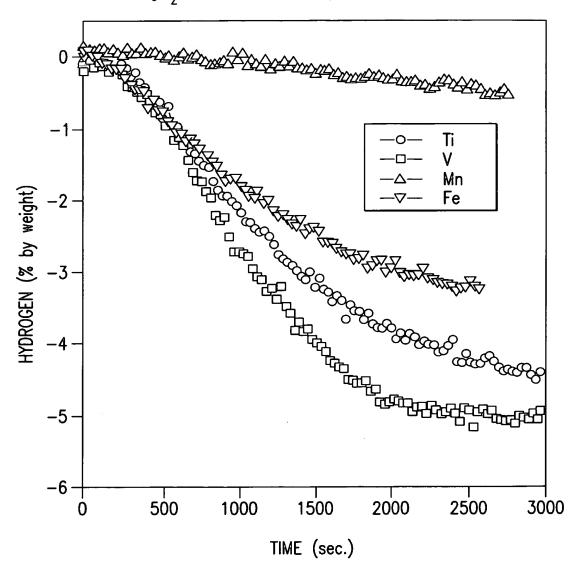


FIG.30

 ${\rm MgH_2}$ – 5at.%Tm, desorption at 573K

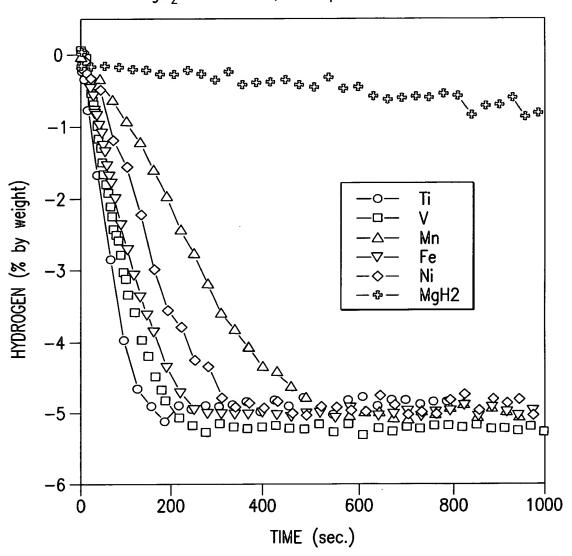


FIG.31

 MgH_2 + 5at.%Cr MECHANICALLY GROUND for 20 Hours P = 150 psi

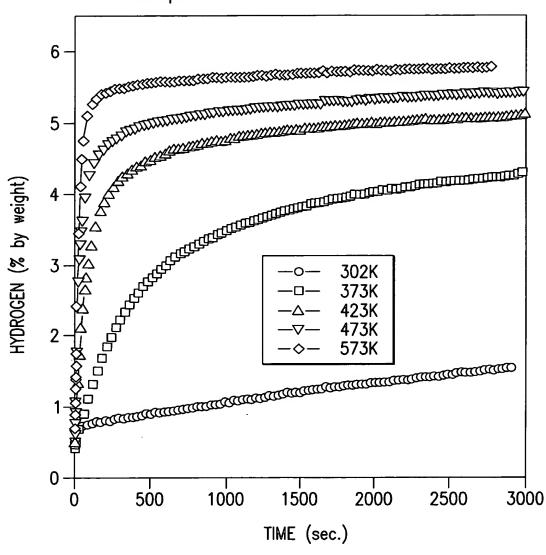


FIG.32

 MgH_2 + 5at.%Ca MECHANICALLY GROUND for 20 Hours P = 150 psi

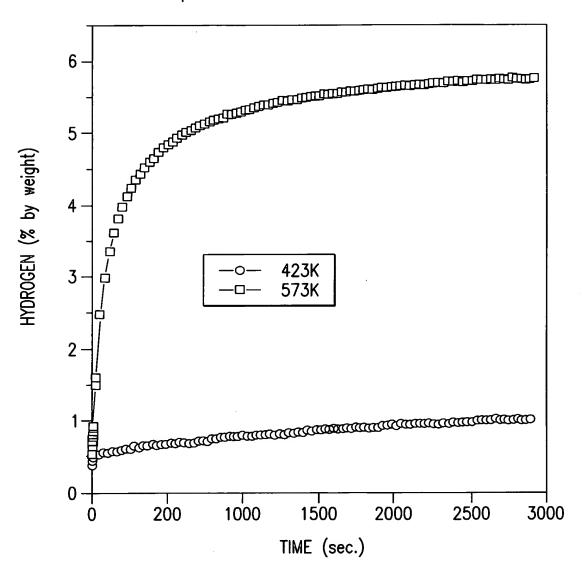


FIG.33

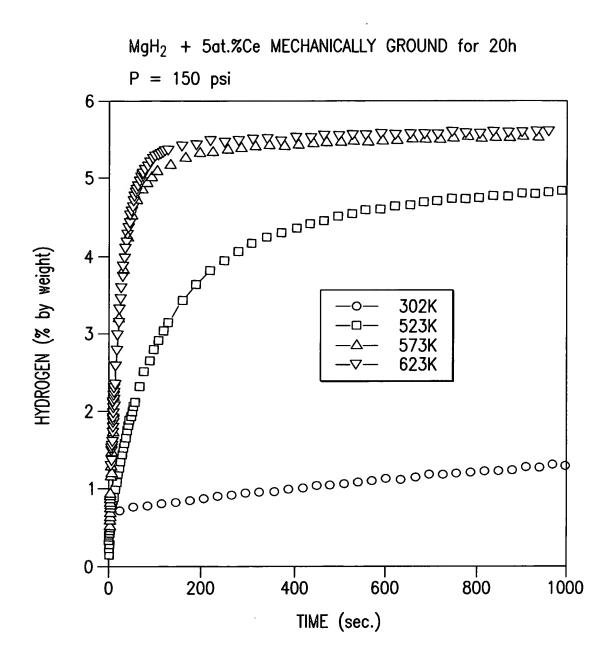


FIG.34

 MgH_2 + 5wt%Y, MECHANICALLY GROUND for 20h P = 150 psi

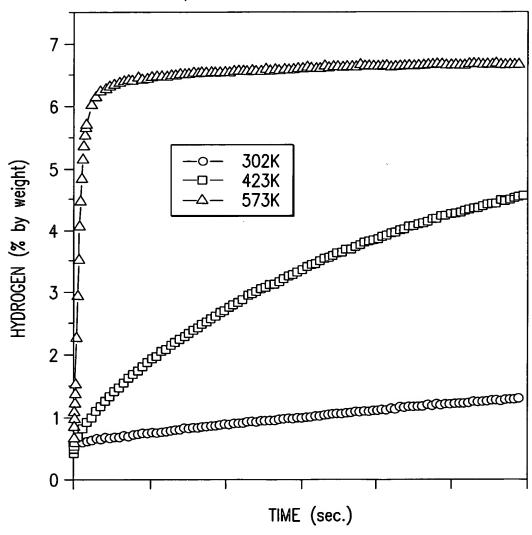


FIG.35



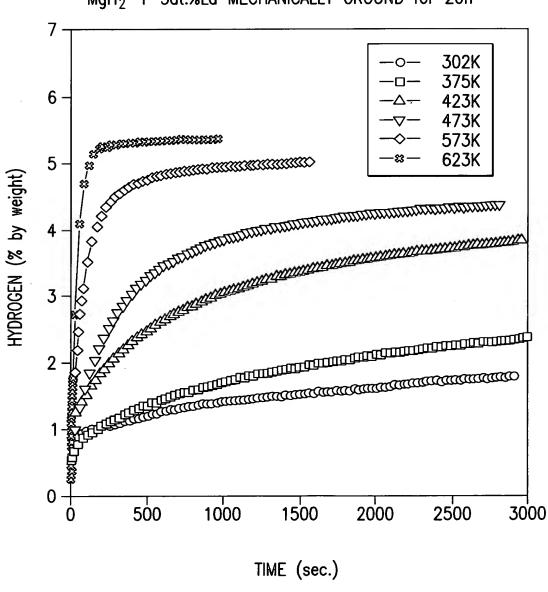


FIG.36

 MgH_2 + 5at.%Ce - 5at.%La MECHANICALLY GROUND FOR 20h P = 150 psi

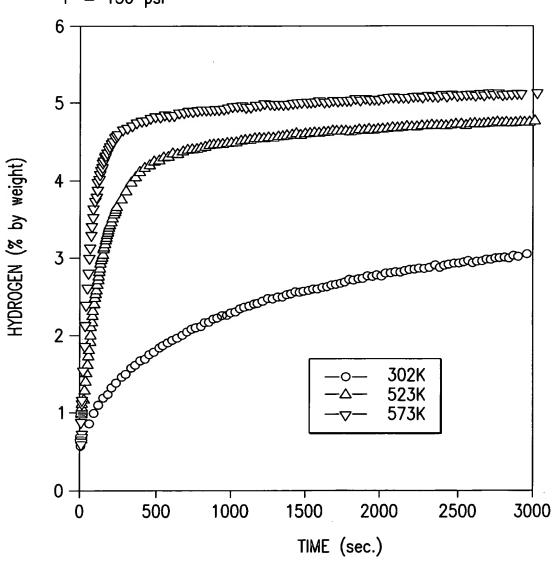


FIG.37

 MgH_2 + 5at.% Ce + 5at.%La + 5at.%V MECHANICALLY GROUND for 20h P = 150 psi

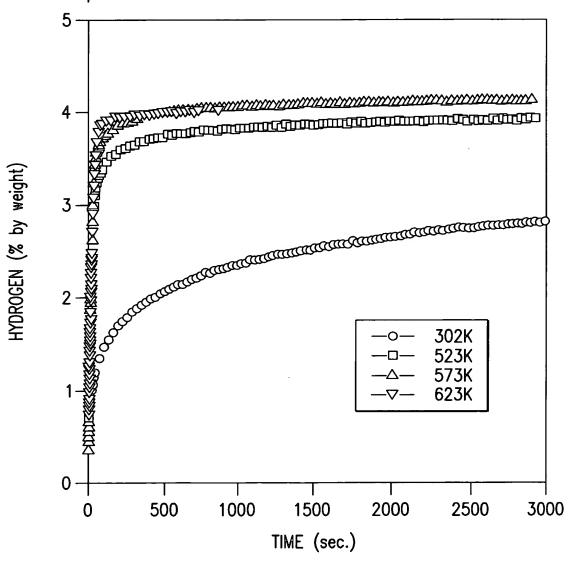


FIG.38

 $\rm MgH_2-7\%$ by weight V - 30% by weight $\rm LaNi_5$ MECHANICALLY GROUND for 20h

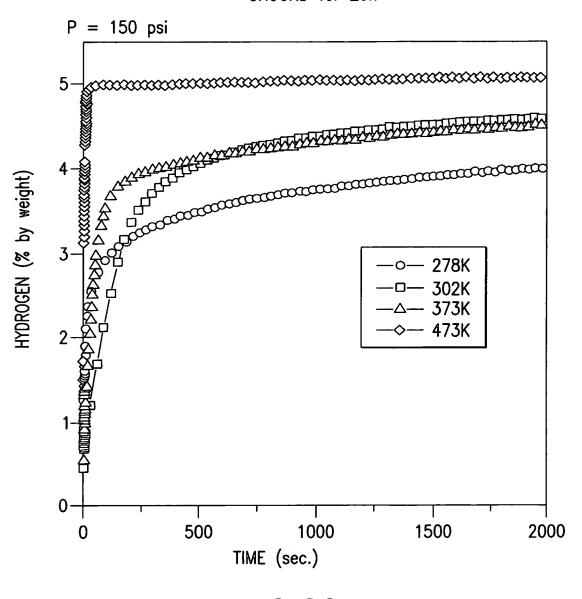


FIG.39

DESORPTION AT 523K P = 0.015 MPa

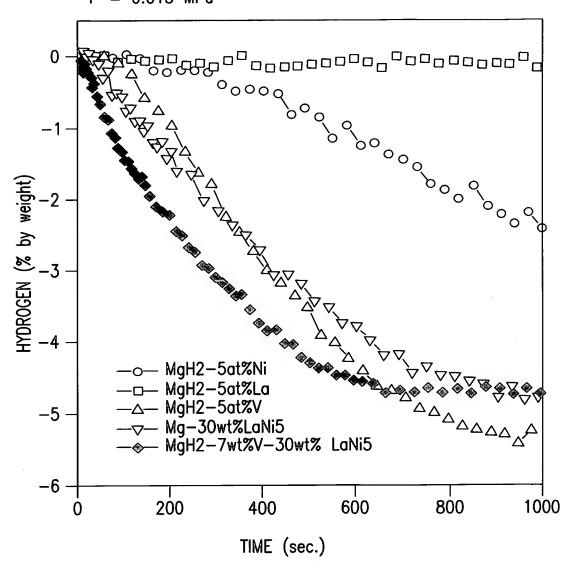


FIG.40